I hereby certify that this correspondence is being deposited with the United States Postal Service on the date set forth below as First Class Mail in an envelope addressed to: Commissioner for Patents, P O Box 2327, Arlington, VA 22202. 75 1700 1700

Date of Signature and Deposit: December 2, 2002

**PATENT** 



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: James A. Thomson

Date: December 2, 2002

Serial No.: 09/522,030

Group Art Unit: 1632

Filed: 03/09/2000

Examiner: Joseph T. Woitach

For: SERUM FREE CULTIVATION OF PRIMATE

File No.: 960296.96544

EMBRYONIC STEM CELLS

## RESPONSE

Commissioner For Patents P O Box 2327 Arlington, VA 22202

**RECEIVED** 

DEC 1 0 2002

Dear Sir:

TECH CENTER 1600/2900

In response to an Office Action dated July 1, 2002 in the file of the above-identified application, please amend the application as follows:

## In the Specification

Page 6, delete the paragraph beginning on line 3 and substitute the following:

-- Techniques for the initial derivation, culture, and characterization of the human ES cell line H9 were described in J. Thomson et al., 282 Science 1145-1147 (1998). In my experiments herein human ES cells were then plated on irradiated (35 gray gamma irradiation) mouse embryonic fibroblast. Culture medium for the present work consisted of 80% "KnockOut" Dulbeco's modified Eagle's medium (DMEM) (Gibco BRL, Rockville, MD), 1 mM L-Glutamine, 0.1 mM -mercaptoethanol, and 1% nonessential amino acids stock (Gibco BRL, Rockville, MD), supplemented with either 20% fetal bovine serum (HyClone, Logan, UT) or 20% KnockOut SR medium adjuvant, a serum-free replacement originally optimized for mouse ES cells (Gibco BRL, Rockville, MD). The components of KnockOut SR medium adjuvant are those described for serum replacements in W0 98/30679.--